Appl. No. 10/549,946
Amdt. dated December 11, 2007
Reply to Office Action of 7/25/2007

PATENT
Docket No.: 00766-04

Amendments to the Claims:

Please amend claims 1, 2, 4, 5, 8, 10, 12-18, 22, 23, 26, and 29-32 as set forth below. Please add new claims 33 and 34. This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A blood pressure and pulse rate system for deriving the blood pressure and pulse of a subject that is in communication with an interface member, said system comprising:

a sensor module in communication with the interface member, said sensor module for detecting a pulse wave form and pulse rate; and a processor module that analyzes the pulse wave form and pulse rate signal for deriving variants of blood pressure;

wherein said interface member is configured to function when in indirect communication with the subject's body.

2. (Currently Amended) The system of claim 1, wherein said variants of blood pressure includes at least ~~on~~ one of pulse pressure, systolic pressure, diastolic pressure, pulse width, pulse time difference, double peak difference, and~~/or~~ depth of dicrotic notch.

3. (Original) The system of claim 1, further comprising: an output module for receiving said variants of blood pressure.

4. (Currently Amended) The system of claim 3, wherein said output module comprises at least one of display, alarm, memory storage, communication device, printer, buzzer, PDA, lap top computer, computer, audio and~~/or~~ visual alarm, and light.

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5. (Currently Amended) The system of claim 1, wherein said interface member is also configured to function when in direct contact with the subject's body. the subject is directly or indirectly coupled to the interface member.

6. (Original) The system of claim 1, wherein said sensor module is directly or indirectly coupled to the interface member.

7. (Original) The system of claim 1, wherein said sensor module and processor module are in wireless communication.

8. (Currently Amended) The system of claim 7, wherein said wireless communication comprises at least one of RF link, an infrared, cellular phone link, optical and/or electromagnetic.

9. (Original) The system of claim 1, wherein said sensor module and processor module are in a hard wired communication.

10. (Currently Amended) The system of claim 9, wherein said hard wired communication comprises at least one of electronic, integrated circuit, electromagnetic, wire, cable, fiber optics, a phone line, twisted pair, and/or coaxial.

11. (Original) The system of claim 1, further comprising archival storage module.

12. (Currently Amended) The system of claim 11, wherein said archival storage module stores at least one of longitudinal analysis and/or pattern recognition for diagnostic and other purposes.

13. (Currently Amended) The system of claim 12, wherein said processor module analyzes the performs at least one of longitudinal analysis and pattern recognition analysis.

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14. (Currently Amended) The system of claim 12, further comprising: a second processor module, said second processor module analyzes the variants of blood pressure, longitudinal analysis, and/or pattern recognition.

15. (Currently Amended) The system of claim 1, wherein the said subject is a human and/or animal.

16. (Currently Amended) The system of claim 1, wherein at least a portion of the said subject is an animate or inanimate object.

17. (Currently Amended) The system of claim 1, where said interface member is at least one of platform, scale, chair, bath mat, mat, bed, shoe, slipper, door knob, handle, and/or sandal.

18. (Currently Amended) The system of claim 1, wherein said sensor module comprises at least one of piezoelectric device, fiber optic device, differential transformer, and/or pressure determining device providing sufficient resolution to transduce the naturally occurring changes in physiology related to the subject of interest cardiac event.

19. (Original) The system of claim 18, wherein said sensor module is directly or indirectly coupled to the subject.

20. (Original) The system of claim 1, further comprising a control module for controlling said sensor module and processor module.

21. (Original) The system of claim 1, wherein said sensor module is directly or indirectly coupled to the subject.

22. (Currently Amended) A method for deriving the blood pressure and pulse of a subject that is in communication with an interface member, said method comprising:

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detecting a pulse wave form and pulse rate; and

analyzing the pulse wave form and pulse rate signal for deriving variants of blood

pressure;

wherein the interface member is configured to function when in indirect communication

with the subject's body.

23. (Currently Amended) The method of claim 22, wherein said variants of blood

pressure includes at least on of pulse pressure, systolic pressure, diastolic pressure, pulse width,

pulse time difference, double peak difference, and/or depth of dicrotic notch.

24. (Original) The method of claim 22, further comprising: outputting the variants of

blood pressure.

25. (Original) The method of claim 24, wherein said outputting is provided by an output

module.

26. (Currently Amended) The method of claim 25, wherein said output module comprises

at least one of display, alarm, memory storage, communication device, printer, buzzer, PDA, lap

top computer, computer, audio or visual alarm, and/or light.

27. (Original) The method of claim 22, further comprising: storing archival information

or data.

28. (Original) The method of claim 27, wherein the storing of archival information or

data is provided by an archival storage module that stores at least one of longitudinal analysis

and/or pattern recognition for diagnostic and other purposes.

29. (Currently Amended) The method of claim 28, further comprises: performing at least

one of analyzing the longitudinal analysis and/or pattern recognition analysis.

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30. (Currently Amended) The method of claim 22, wherein the said subject is a human and/or animal.

31. (Currently Amended) The method of claim 22, wherein at least a portion of the said subject is an animate or inanimate object.

32. (Currently Amended) A computer program product comprising computer usable medium having computer logic for enabling at lease one processor in a computer system to derive the blood pressure and pulse of a subject that is in communication with an interface member, said computer logic comprising:

detecting a pulse wave form and pulse rate; and

analyzing the pulse wave form and pulse rate signal for deriving variants of blood pressure;

wherein the interface member is configured to function when in indirect communication with the subject's body.

33. (New) The method of claim 22, wherein the interface member is also configured to function when in direct contact with the subject's body.

34. (New) The computer logic of claim 32, wherein the interface member is also configured to function when in direct contact with the subject's body.